

MERAMEC RIVER BASIN

07014200 COURTOIS CREEK AT BERRYMAN, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 37°55'05", long 91°06'04", in SW 1/4 NE 1/4 sec.13, T.37 N., R.1 W., Crawford County, Hydrologic Unit 07140102. Take Highway 8 until you cross Courtois Creek, about 13 mi east of Steelville.

DRAINAGE AREA.--173 mi².

PERIOD OF RECORD.--November 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. (CUBIC FEET PER SECOND) (00061)	TEMPERATURE WATER (DEG C) (00010)	SPECIFIC CONDUCTANCE (µS/cm) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	OXYGEN, DIS-SOLVED (PER-CENT SATURATION) (00300)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (mg/L) (00340)	COLIFORM, FECA, 0.7 µm-MF (COLS./100 mL) (31625)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 mL) (31673)	ALKALINITY WAT WH TOT FET FIELD (mg/L as CaCO ₃) (00410)
NOV 1996										
12...	1400	145	8.5	318	7.98	11.2	94	--	K18	28
JAN 1997										
29...	0905	413	1.5	199	7.73	13.5	95	<10	K17	59
MAR										
10...	1415	240	10.0	240	7.61	11.5	102	--	K7	K12
APR										
01...	1210	170	11.5	256	7.77	12.0	110	--	K4	K7
JUN										
19...	0840	313	17.0	203	8.80	8.8	90	<5	84	125
AUG										
19...	1520	167	21.5	298	8.12	7.1	80	--	260	450

DATE	BICARBONATE WATER WH IT FIELD (mg/L as HCO ₃) (00450)	CARBONATE WATER WH IT FIELD (mg/L as CO ₃) (00447)	NITROGEN, NO ₂ +NO ₃ TOTAL (mg/L as N) (00630)	NITROGEN, NITRITE TOTAL (mg/L as N) (00615)	NITROGEN, AMMONIA TOTAL (mg/L as N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N) (00625)	PHOSPHORUS TOTAL (mg/L as P) (00665)	PHOSPHORUS ORTHO TOTAL (mg/L as P) (70507)	HARDNESS TOTAL (mg/L as CaCO ₃) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)
NOV 1996										
12...	189	0	0.170	<0.010	0.010	<0.20	<0.020	<0.010	--	--
JAN 1997										
29...	151	0	0.200	<0.010	<0.010	<0.20	<0.020	<0.010	110	24
MAR										
10...	146	0	0.180	<0.010	<0.010	<0.20	0.030	0.010	--	--
APR										
01...	156	0	0.060	<0.010	<0.010	<0.20	<0.020	<0.010	--	--
JUN										
19...	166	0	0.090	<0.010	0.010	0.20	<0.020	<0.010	140	29
AUG										
19...	207	0	0.160	<0.010	0.020	<0.20	<0.020	0.020	--	--

DATE	MAGNESIUM, DIS-SOLVED (mg/L as Mg) (00925)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	POTASSIUM, DIS-SOLVED (mg/L as K) (00935)	SULFATE DIS-SOLVED (mg/L as SO ₄) (00945)	CHLORIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUORIDE, DIS-SOLVED (mg/L as F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	ALUMINUM, DIS-SOLVED (µg/L as Al) (01106)
JAN 1997										
29...	13	1.7	0.70	12	5.0	<0.10	156	2	80	6.4
JUN										
19...	17	1.8	0.80	12	2.2	<0.10	156	2	70	18

DATE	CADMIUM TOTAL RECOVERABLE (µg/L as Cd) (01027)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, TOTAL RECOVERABLE (µg/L as Pb) (01051)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	MANGANESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOVERABLE (µg/L as Hg) (71900)	ZINC, TOTAL RECOVERABLE (µg/L as Zn) (01092)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)
JAN 1997										
29...	<1	<1.0	<1.0	10	1	<1.0	2.2	<0.10	9	5.7
JUN										
19...	<1	<1.0	<1.0	10	<1	<1.0	5.6	<0.10	2	1.3

K--Results based on colony count outside the acceptable range (non-ideal colony count).